

**Appendix 2. Association between Time-weighted Arsenic Concentrations and Mortality from Disease of the Circulatory System [posted as supplied by author]**

Arsenic Exposure Variables/ cardiovascular disease mortality	Hazard ratio (95% confidence interval) per standard deviation (111 µg/L) in time- weighted arsenic concentrations	Hazard ratio (95% confidence interval) by time-weighted arsenic concentrations (range)				P for trend ‡
		Q1 (0.1-14.0)	Q2 (14.1-62.5)	Q3 (62.6-145.0)	Q4 (145.1-864.0)	
Follow-up Person-Years		19277.4	18178.8	18387.3	18588.4	
Disease of the circulatory system						
n of deaths	195	45	48	37	65	
Model 1*	1.07 (0.95 to 1.21)	1.00	1.22 (0.82 to 1.80)	0.99 (0.64 to 1.53)	1.48 (1.01 to 2.17)	0.2822
Model 2†	1.08 (0.95 to 1.23)	1.00	1.21 (0.79 to 1.84)	1.13 (0.72 to 1.78)	1.51 (1.01 to 2.27)	0.2315
Ischemic heart disease and other forms of heart disease						
n of deaths	103	23	23	19	38	
Model 1*	1.21 (1.04 to 1.41)	1.00	1.13 (0.63 to 2.05)	0.97 (0.52 to 1.81)	1.71 (1.00 to 2.93)	0.0169
Model 2†	1.25 (1.06 to 1.47)	1.00	1.15 (0.61 to 2.16)	1.15 (0.60 to 2.19)	1.78 (1.00 to 3.17)	0.0072
Ischemic heart disease						
n of deaths	70	16	15	14	25	
Model 1*	1.17 (0.99 to 1.40)	1.00	1.07 (0.52 to 2.19)	1.05 (0.50 to 2.17)	1.62 (0.85 to 3.08)	0.0728
Model 2†	1.22 (0.99 to 1.49)	1.00	1.08 (0.50 to 2.31)	1.27 (0.60 to 2.68)	1.67 (0.85 to 3.29)	0.0466
Cerebrovascular disease						
n of deaths	83	19	24	16	24	
Model 1*	0.89 (0.74 to 1.10)	1.00	1.45 (0.80 to 2.60)	1.05 (0.55 to 2.02)	1.28 (0.68 to 2.39)	0.2895
Model 2†	0.89 (0.71 to 1.12)	1.00	1.41 (0.78 to 2.57)	1.16 (0.59 to 2.27)	1.26 (0.66 to 2.42)	0.3215

\* The hazard ratios were adjusted for gender and baseline age (years)

† The hazard ratios were adjusted for gender and baseline age (years), BMI (kg/m<sup>2</sup>), smoking status (never, past, current), educational attainment (years), and visit-to-visit changes in urinary creatinine-adjusted arsenic concentration (µg per g of creatinine)

‡ P-value for trend was estimated using arsenic exposure variable as a continuous variable in the model